HOWARD & HOWARD

21004

Applicant: Martin Kreyenschmidt

Serial No.: 09/763,280

Group Art Unit: 1711

REMARKS

Claims 1-3 and 11 remain in this application with claim 1 being in independent form.

Claim 1 has been amended and claims 4, 12 and 14-16 have been cancelled. There is full

support in the specification as originally filed for these amendments. Accordingly, no new

matter has been introduced through these amendments.

Applicant has cancelled claims 12 and 14-16. Therefore, the applicable §112 and

§102(b) rejections are moot.

Claims 1-4 and 11 stand rejected under 35 U.S.C. §103(a) as being unpatentable over

Yukuta (United States Patent No. 4,303,755) in view of Hicks (GB 2,196,974). Claim 14

was not included in this §103 rejection and has been incorporated into claim 1. Therefore,

this rejection is overcome and not discussed.

Furthermore, claims 1 and 14 stand rejected under 35 U.S.C. §103(a) as being

unpatentable over Woods (ICI Polyurethane Book) in view of Yukuta. The Examiner also

contends that Woods discloses a typical mattress foam having the density claimed and

formed by reacting polyisocyanates with isocyanate reactive ingredients in the presence of

amine catalysts, additives, and blowing agents. Finally, the Examiner contends that it would

have been obvious to one of ordinary skill in the art to add an anhydride to the foam

composition of Woods to improve the foam stability.

Applicant has amended claim 1 to include the limitation of claim 14 of being directed

toward a mattress and/or upholstery material and/or carpet material. However, claim 14 was

previously rejected by the Examiner as being obvious under 35 U.S.C. §103. Therefore,

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Applicant argues that based upon the following analysis, the Examiner has failed to establish a

prima facie case of obviousness under 35 U.S.C. §103 and claim 1, as amended, is allowable.

The law is adequately set forth in the Manual for Patent Examining Procedure

(MPEP). When applying 35 U.S.C. §103, the following tenets of patent law must be adhered

to: the claimed invention must be considered as a whole and the references must be

considered as a whole and must suggest the desirability and thus the obviousness of making

the combination. Hodosh v. Block Drug Co., Inc., 786 F.2d 1136,1143 n.5, 229 USPO 182,

187 n.5 (Fed. Cir. 1986).

Further, in order to use a reference for a §103 rejection, it must be analogous prior art, as

set forth at MPEP §2141.01(a). "In order to rely on a reference as a basis for rejection of an

applicant's invention, the reference must either be in the field of applicant's endeavor or, if

not, then be reasonably pertinent to the particular problem with which the inventor was

concerned." In re Oetiker, 977 F.2d 1443, 1446, 24 USPQ2d 1443, 1445 (Fed. Cir. 1992).

1985). In determining the differences between the prior art and the claims, the question under

35 U.S.C. §103 is not whether the differences themselves would have been obvious, but whether

the claimed invention as a whole would have been obvious. Stratoflex, Inc. v. Aeroquip Corp.,

713 F.2d 1530, 218 USPQ 871 (Fed. Cir. 1983); Schenck v. Nortron Corp., 713 F.2d 782, 218

USPQ 698 (Fed. Cir. 1983).

To establish a prima facie case of obviousness, three basic criteria must be met. First,

there must be some suggestion or motivation, either in the references themselves or in the

knowledge generally available to one of ordinary skill in the art, to modify the reference or to

combine reference teachings. Second, there must be a reasonable expectation of success.

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Finally, the prior art reference (or references when combined) must teach or suggest all the

claim limitations. The teaching or suggestion to make the claimed combination and the

reasonable expectation of success must both be found in the prior art, and not be based on

applicant's disclosure. In re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991). See

MPEP '2143 - '2143.03 for decisions pertinent to each of these criteria.

As further clarified by the Court in In re Sang Su Lee, 277 F.3d 1338 (Fed. Cir. 2002).

citing Brown & Williamson Tobacco Corp. v. Phillip Morris, Inc., 229 F.3d 1120, 1124-25

(Fed. Cir. 2000), for a rejection of a claim under 35 U.S.C. § 103(a), it is required that there be

some teaching or motivation found within the references themselves that would lead one of

ordinary skill in the art to combine the references and, furthermore, that once combined the

references must either disclose each and every limitation of the claim or make obvious any such

limitations not disclosed. Absent a teaching or motivation within the references themselves for

combining the references, it is improper for the Examiner to combine the references. Id.

The subject invention is directed toward a mattress and/or upholstery material and/or

carpet material having a density of 20 to 70 kg/m³. The mattress and/or upholstery material

and/or carpet material includes a flexible polyurethane foam made by reacting isocyanates

with compounds which are reactive toward isocyanates in the presence of catalysts, blowing

agents, additives and/or auxiliaries. The reaction is carried out in the presence of (ii) at least

one organic or inorganic acid anhydride and at least one urethane forming catalyst selected

from the group consisting of organic amines, excluding alkanolamines, and organic metal

compounds. The subject invention provides the mattress and/or upholstery material and/or

carpet material having an improved stability to the aging process, in particular to hydrolysis

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of the foam. Moreover, the subject invention is particularly useful in foams exposed to hot

and humid conditions.

Claims 1 and 14 stand rejected under 35 U.S.C. §103(a) as being unpatentable over

Woods (ICI Polyurethane Book) in view of Yukuta. When considering Woods as a whole, it

discloses a process for forming a slabstock polyurethane foam which, as known in the art, are

stable foams. It does not include acid anhydride, nor does it produce foam that is unstable

requiring additional additives such as acid anhydride. It is well known in the polyurethane art to

make polyurethane foam from a slabstock process. Yukuta, which must be considered as a

whole, discloses a safety fuel tank and a method of forming the safety fuel tank. The safety fuel

tank is filled with a flexible polyurethane foam formed with acid anhydrides. Referring to Col.

3, lines 44-50, Yukuta adds the acid anhydride to improve the foaming stability and the air

permeability of the foam while it is being produced. Yukuta is not directed toward extending

the aging process of the foam. There is no teaching or motivation, explicitly or implicitly, as

required by In re Sang Su Lee, to combine the acid anhydride from Yukuta with the slabstock

polyurethane foam of Woods to produce a more stable foam that withstands the aging process.

Further, Yukuta is not analogous prior art as that of the subject invention. Safety fuel

tanks made with flexible polyurethane foam disposed therein are not in the field of

applicant's endeavor. Moreover, Yukuta was concerned with improving the foaming stability

and the air permeability of the foam while it is being produced within the safety fuel tank and

is not reasonably pertinent to the particular problem with which the applicant was concerned,

as described above. Therefore, the Examiner improperly relies on Yukuta as a reference under

§103.

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Finally, even if the references could be combined, each and every limitation of the

subject invention is not taught nor suggested. Specifically, when combined, the references do

not teach or suggest a mattress and/or upholstery material and/or carpet material comprising a

flexible polyurethane foam having a density of 20 to 70 kg/m³. Furthermore, Yukata and

Woods, either alone or in combination, do not teach or suggest forming the mattress,

upholstery material, or carpet material from a foam made by reacting isocyanates with

isocyanate reactive compounds in the presence of (ii) at least one organic or inorganic acid

anhydride. Therefore, the §103 rejections are overcome and claims 1-3 and 11, as amended,

are allowable.

Accordingly, it is respectfully submitted that the Application, as amended, is now

presented in condition for allowance, which allowance is respectfully solicited. Applicant

believes that no fees are due, however, if any become required, the Commissioner is hereby

authorized to charge any additional fees or credit any overpayments to Deposit Account 08-

2789. Further and favorable reconsideration of the outstanding Office Action is hereby

requested.

Respectfully submitted

HOWARD & HOWARD ATTORNEYS, P.C.

ry 27, 2003

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